

**Section 1: Identification**

<b><u>Product Description:</u></b>	Dyed Vinyl (PVC) and Mylar (PET) - Metallized and Non-Metallized
<b><u>Dyed Non-Metallic Vinyl:</u></b>	All BCE Dye Series
<b><u>Dyed Metallic Vinyl:</u></b>	All BAD, BGE and BAE Dye Series
<b><u>Dyed Embossed Vinyl:</u></b>	All BEE Dye Series
<b><u>Luminescent Dyed Vinyl:</u></b>	All BFB and BFD Dye Series
<b><u>Manufacturer Codes:</u></b>	H40, H2, H12, H11-C, H10, H14-B, H10-A, H18-B, H110, H13, A16, A24-H, A26, A12, A4, A15-C, A10, A2, A11, A22-E1, A1-G, A28-A, A9-H, A9-D, A9-G, A9-E, F4-A, F1-D, F6-A, F5-A, F7-A, F6-B, F9-A, F6-E, F4-C, F4-B, A9-A3, A10-I, A9-A3, A20-F, C7-D, A4-Z, H114, H111, H113, H112, H116, H117, Z-B, F15
<b><u>Recommended/Restricted Use:</u></b>	Confetti, Streamers and Decorative Specialty Enhancements/Industrial Use
<b><u>Company Identification:</u></b>	Artistry In Motion, Inc. 19411 Londelius Street Northridge, CA 91324 Tel#: (818)-994-7388
<b><u>Emergency Phone:</u></b>	CHEMTREC 24-hr Emergency Response Number: (800) 424-9300 International Calls: Collect 1-703-527-3887 CHEMTREC should only be called in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

**Section 2: Hazards Identification**

<b><u>Physical hazards:</u></b>	decomposition products caused by overheating may cause eye, skin or respiratory irritation. Molten material may cause thermal burns.
<b><u>Health hazards:</u></b>	no known health hazards.
<b><u>Environmental hazards:</u></b>	no known environmental hazards.
<b><u>NFPA:</u></b>	

Health	Flammability	Chemical Reactivity
1	0	0

**Section 3: Composition/Information on Ingredients**

Table 1 - Non-hazardous constituents.

Constituent	RN	Wt. %	Notes
Polyvinyl chloride	9002-86-2	87 - 94	80 – 140 gauge
Acrylic production resin	mixture	5 - 8	80 – 140 gauge
Dispersion	mixture	0 - 5	80 – 140 gauge
Aluminum	7429-90-5	<0.1	

Table 2 - Non-hazardous constituents for metallized vinyl BGE1001.

Constituent	RN	Wt. %	Notes
Polyvinyl chloride	9002-86-2	55	
Polyethylene terephthalate	25038-59-9	42	
PSA	mixture	3	

Table 3 - The following hazardous constituents are present at quantities greater than 0.1% w/w in these black and white dyed items: BAD1000, BAE1000, BEE1015, BAD1009, BAE1009, BEE1014 and BFD1004.

Constituent	RN	Wt. %	Notes
Carbon black	1333-86-4	1 - 3	
Titanium dioxide	13463-67-7	3 - 5	

**Section 4: First Aid Measures**

**Eye contact:** this material is known to be a mild eye irritant under normal conditions. If particles of film contact the eyes then wash immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of particle remains (at least 15-20 minutes). Get medical attention as necessary.

**Skin contact:** this material is known to be a mild skin irritant under normal use. In case of skin contact with molten material cool rapidly with cold water. Do not attempt to peel polymer from skin rapidly. Seek medical attention for thermal burn.

**Inhalation:** no specific intervention is indicated as the material is not likely to be hazardous by inhalation. However, if exposed to fumes from overheating or combustion, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary. Refer to warning in Section 8 pertaining to dust particles containing carbon black and titanium dioxide.

**Ingestion:** ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician immediately. See Section 11 for more details.

**Other notes:** prolonged eye irritation may occur from pieces of debris sticking to the eyeball or eyelids.

### Section 5: Fire Fighting Measures

Traditional maximum operating temperature around 140 °F (60 °C) when heat distortion begins to occur. Melting temperatures range from 212 °F (100 °C) 500 °F (260 °C).

**Flammability:** films can be combusted only by remaining in contact with flame. If flame source is stationary, the film will shrink away and self-extinguish. Film remaining in contact with flame can continue to burn slowly, dropping flaming liquid which can spread the fire. Irritating fumes may be evolved at decomposition temperatures. During processing, films may pick up a strong static charge. Avoid discharge onto dust or solvent laden air as a flash fire or explosion may result.

**Suitable extinguishing media:** powder, carbon dioxide, water spray.

**Specific hazards:** burning may release Carbon Dioxide, water vapor and Hydrochloric gas.

**Firefighting instructions:** keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

### Section 6: Accidental Release Measures

**Personal Precautions:** wear gloves to protect hands and eye protection when cleaning up film as a solid.

**Environmental precautions:** follow applicable federal, state and local regulations.

**Method for removal/cleanup:** films and film scraps can create a slipping hazard. Collect product for recovery or disposal. Follow applicable federal, state and local regulations.

### Section 7: Handling and Storage

**Safe handling:** rolled film may telescope. Use caution when handling. Film should be stored at intended processing temperature for approximately 24 hours prior to use.

**Proper storage:** store away from heat and sources of ignition. Do not store in direct sunlight. Avoid prolonged storage in high or low temperatures. Recommended storage temperatures are between 20 °F (-7 °C) and 100 °F (38 °C).

**Section 8: Exposure Controls and Personal Protection**

**OSHA exposure limitations:** threshold limit Value (TLV) – 10 mg·m<sup>-3</sup> (inhalable), 3 g·m<sup>-3</sup> (respirable) (TWA).

**Engineering controls:** general exhaust is acceptable except where overheating can occur during processing. Remove fumes released by decomposition with local exhaust if overheating occurs. Movement of film over metal or rollers will produce a surface static charge on the film. Consider processing design and procedures that will reduce or dissipate this charge and eliminate the possibility of unwanted electrical discharge to people, equipment and materials.

**Eyes:** avoid contact with eyes, wear safety glasses.

**Respiratory:** respirators are not normally required for normal processing.

**WARNING:** the products shown on Table 3 in Section 3 contain the following substances in quantity greater than 0.1% w/w that are known to the State of California to cause cancer, birth defects or other reproductive harm: titanium dioxide and carbon black. These substances are encapsulated in the coating portion of the material. This product does not contain any airborne, unbound particles of respirable size. This information applies only to materials Flagship Converters, Inc. supplies and does not apply to use in any process or in combination with any other material. Our products, in the form provided, do not contain carbon black or titanium dioxide in a powder form. Flagship Converters, Inc. recommends that you make your own determination of the suitability of these materials to your application.

**Dermal:** if there is potential for contact with hot/molten material, wear heat resistant impervious clothing and footwear. Special protective clothing is not needed for normal use.

**Hands:** gloves are recommended as good industrial practice.

**Section 9: Physical and Chemical Properties**

<b>Physical State:</b>	Solid	<b>Appearance:</b>	Film
<b>Color:</b>	Various	<b>Odor:</b>	Odorless
<b>Solubility (Water):</b>	Insoluble	<b>Melting Point:</b>	212 °F to 500 °F (100 °C to 260 °C)
<b>Boiling Point:</b>	>662 °F (>250 °C)	<b>Density:</b>	1.1 to 1.4 g·cm <sup>-3</sup>
<b>Decomposition Point:</b>	> 390 °F (>200 °C)		

**Section 10: Stability and Reactivity**

**Stability:** stable under normal temperatures and pressures.  
**Conditions to avoid:** may burn but does not ignite readily. Avoid contact with strong oxidizers, strong acids, strong bases, excessive heat, sparks, or open flame.  
**Incompatible materials:** compound is incompatible with strong oxidizers, strong acids, strong bases, excessive heat, sparks or open flame.  
**Decomposition hazards:** decomposition temperature begins >390 °F (>200 °C). Decomposition products include carbon and nitrogen oxides, aldehydes, terephthalic acid.

**Section 11: Toxicological Information**

**Inhalation/Respiratory:** Refer to warning in Section 8.  
**Eye contact:** May cause eye irritation.  
**Dermal:** May cause skin irritation.  
**Oral:** May be harmful if swallowed.  
**Carcinogenic categories:** Refer to warning in Section 8. The listing of carbon black and titanium dioxide in the Proposition 65 regulation specifically pertains to airborne, unbound, particles of respirable size. This means that all three conditions would have to be met in order for these two substances be considered a carcinogen according to the requirements of Proposition 65.

**Section 12: Other Information**

The Information and recommendations contained herein are based on standard product and are proprietary and furnished solely for the use of our customers. The performance of these products may vary due to the composition and application of the final product in which they are used. It is the responsibility of the customer to assess the product, in relationship to the intended use to assure its compliance with all applicable laws and regulations and Flagship Converters company nor its' affiliates can accept responsibility for loss, injury or other damages resulting from the use of the product or this or any other information provided by us. Unless otherwise agreed in a signed writing, NO GUARANTEES OF ANY KIND, INCLUDING THOSE OF FITNESS OR MERCHANTABILITY, ARE MADE BY FLAGSHIP CONVERTERS COMPANY OR ITS' AFFILIATES with regard to any of their products.

**Prepared By:** Artistry In Motion, Inc.

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